

SAFETY PRECAUTIONS

SERVICE WARNING

Only qualified service technicians who are familiar with safety checks and guidelines should perform service work. Before replacing parts, disconnect power source to protect electrostatically sensitive parts. Do not attempt to modify any circuit unless so recommended by the manufacturer. When servicing the receiver, use an isolation transformer between the line cord and power receptacle.

SERVICING THE HIGH VOLTAGE AND CRT

Use EXTREME CAUTION when servicing the high voltage circuits. To discharge static high voltage, connect a 10K ohms resistor in series with a test lead between the receiver ground and CRT anode lead. DO NOT lift the CRT by the neck. Always wear shatterproof goggles when handling the CRT to protect eyes in case of implosion.

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

Be aware of the instructions and procedures covering X-ray radiation. In solid-state receivers and monitors, the CRT is the only potential source of X-rays. Keep an accurate high voltage meter available at all times. Check meter calibration periodically. Whenever servicing a receiver, check the high voltage at various brightness levels to be sure it is regulating properly. Keep high voltage at rated value, NO HIGHER. Excessive high voltage may cause X-ray radiation or failure of associated components. DO NOT depend on protection circuits to keep voltage at rated value. When troubleshooting a receiver with excessive high voltage, avoid close contact with the CRT. DO NOT operate the receiver longer than necessary. To locate the cause of excessive high voltage, use a variable AC transformer to regulate voltage. In present receivers, many electrical and mechanical components have safety related characteristics which are not detectable by visual inspection. Such components are identified by a # on both the schematic and the parts list. For SAFETY, use only equivalent replacement parts when replacing these components.

GENERAL GUIDELINES

Perform a final SAFETY CHECK before returning receiver to customer. Check repaired area for poorly soldered connections, and check entire circuit board for solder splashes. Check board wiring for pinched wires or wires contacting any high wattage resistors. Check that all control knobs, shields, covers, grounds, and mounting hardware have been replaced. Be sure to replace all insulators and restore proper lead dress.

HIGH VOLTAGE SHUTDOWN TEST

Momentarily short BC14901 (see Q14901 base) to ground. The receiver should lose raster and sound. If receiver does not lose raster and sound, the shutdown circuit should be repaired. To resume normal operation, remove AC power for approximately 30 seconds and then turn the receiver on.

The listing of any available replacement part herein in no case constitutes a recommendation, warranty, or guarantee by SAMS Technical Publishing as to the quality and suitability of such replacement part. The numbers of the listed parts have been compiled from information furnished to SAMS Technical Publishing by the manufacturers of the specific type of replacement part listed.

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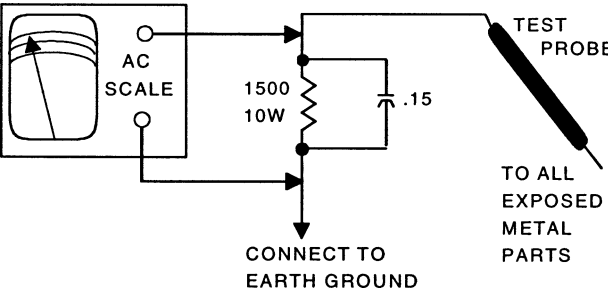
SAFETY CHECKS — FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch on (if applicable). Use an ohmmeter to measure the resistance between the jumped AC plug and any exposed metal cabinet parts such as antenna screw heads, control shafts, or handle brackets. Exposed metal parts with a return path should measure between 1M ohms and 5.2M ohms. Parts without a return path must measure infinity.

Hot Leakage Current Check

Plug the AC cord directly into an AC outlet. DO NOT use an isolation transformer. Use a 1500 ohms, 10W resistor in parallel with a .15µF capacitor to connect between any exposed metal parts on the receiver and a good earth ground. (See figure below.) Use an AC voltmeter with at least 5000 ohms per volt sensitivity to measure the voltage across the resistor. Check all exposed metal parts and measure voltage at each point. Voltage measurements should not exceed .75VAC, 500µA. Any value exceeding this limit constitutes a potential shock hazard and must be corrected. If the AC plug is not polarized, reverse the AC plug and repeat exposed metal part voltage measurement at each point.



UPC
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PHOTOFACT[®] Technical Service Data
SILVER
GE
Model 31GT750YX3 (Chassis CTC203CA2)

SET 4702

MODEL 31GT750YX3 (CHASSIS CTC203CA2)

GE

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Representative Model

Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list



MARCH 2003 SET 4702

For Supplier Address,
See PHOTOFACT Annual Index

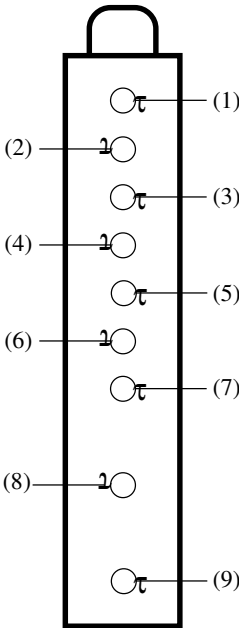
TUNER INFORMATION

TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	2.5V	2.5V	3.0V
(2) NC	1.3V	4.3V	5.7V
(3) +5V	5.2V	5.2V	5.2V
(4) CLOCK	5.1V	5.1V	5.1V
(5) SDA	5.1V	5.1V	5.1V
(6) +5V	5.2V	5.2V	5.2V
(7) +5V	5.2V	5.2V	5.2V
(8) +33V	34.5V	34.5V	34.5V
(9) IF	0V	0V	0V

NOTE: VHF Low Band voltages taken on channel 2.
VHF High Band voltages taken on channel 7.
UHF Band voltages taken on channel 14.

TUNER TERMINAL GUIDE



ERROR CODES CHART

Error Code			
DEC	HEX	Error Location	Condition Indicated
0	00	No error code	-
1	01	16.0V fault	16.0V STBY source is failing.
3	03	12.0V run fault	12.0V source is failing.
4	04	T4 Chip	Run supply failed.
8	08	T4 Chip	X-ray protection caused high voltage shutdown.
9	09	T4 Chip (POR)	Power supply problem at (POR) power on reset.
10	0A	F2 PIP module error (POR)	Power supply problem at (POR) power on reset/PIP.
11	0B	Stereo decoder (POR)	Power supply problem at reset/Stereo decoder.
16	10	Run IIC Bus held low	Run IIC clock or data held low.
18	12	Standby IIC Bus held low	Standby IIC clock or data held low.
23	17	Gemstar 4 Board	Guide fatal error on set using Gemstar 4 Board.
24	18	Gemstar 4 Board	Task monitor error on set using Gemstar 4 Board.
25	19	Gemstar 4 Board	Watchdog error on set using Gemstar 4 Board.
26	1A	Gemstar 4 Board	Task monitor error on set using Gemstar 4 Board.
32	20	Gemstar 4 Board	CPU error on set using Gemstar 4 Board.
34	22	Gemstar 4 Board	Gemstar 4 fails to acknowledge.
44	2C	F2 PIP module error	F2PIP fails to acknowledge.
102	66	Octal DAC	Octal DAC fails to acknowledge.
128	80	Stereo decoder	Stereo decoder fails to acknowledge.
160	A0	Main or PIP tuner EEPROM	Main or PIP tuner EEPROM fails to acknowledge.
186	BA	T4 Chip	T4 Chip fails to acknowledge.
196	C4	Main tuner PLL/DAC	Main tuner PLL IC fails to acknowledge.
198	C6	Main tuner PLL/DAC	Main tuner DAC IC fails to acknowledge.

ERROR CODES

If certain failures occur, the matching error codes will be stored in the EEPROM. These error codes will be displayed in parameters 1, 2, and 3. The first failure error code will be stored at parameter 1 and the second failure error code will be stored at parameter 2. Parameter 3 will be updated to display the most recent failure occurred in the chassis. If a failure of a bus IC occurred, the normal acknowledgment checking of that bus will be disabled in the service mode and the address of that IC which failed will be stored in one of the error code parameters. After every repair is done to the chassis it is recommended to check the error code parameters and reset them back to value 0.

MISCELLANEOUS ADJUSTMENTS

COLOR TEMPERATURE

NOTE: See Service Adjustment Parameters to change drive and bias values.

Press menu button for collapsed raster service line. Disconnect the antenna. Preset the red, green, and blue drive values to 32. Adjust screen control for a service line that is just visible. Adjust red, green, and blue drives to obtain a white raster. Check the low light to high light gray scale tracking. Repeat the procedure, if necessary, to obtain the best performance

NOTE: All procedures require an antenna connected and power applied to the set.

HIGH VOLTAGE CHECK

Tune in a picture. Set brightness, contrast, and color to minimum. Connect a high voltage probe to the CRT anode. High voltage should measure 30.5kV to 32.5kV.

SERVICE MENU

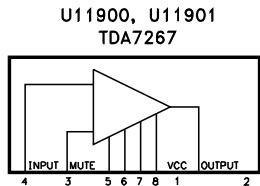
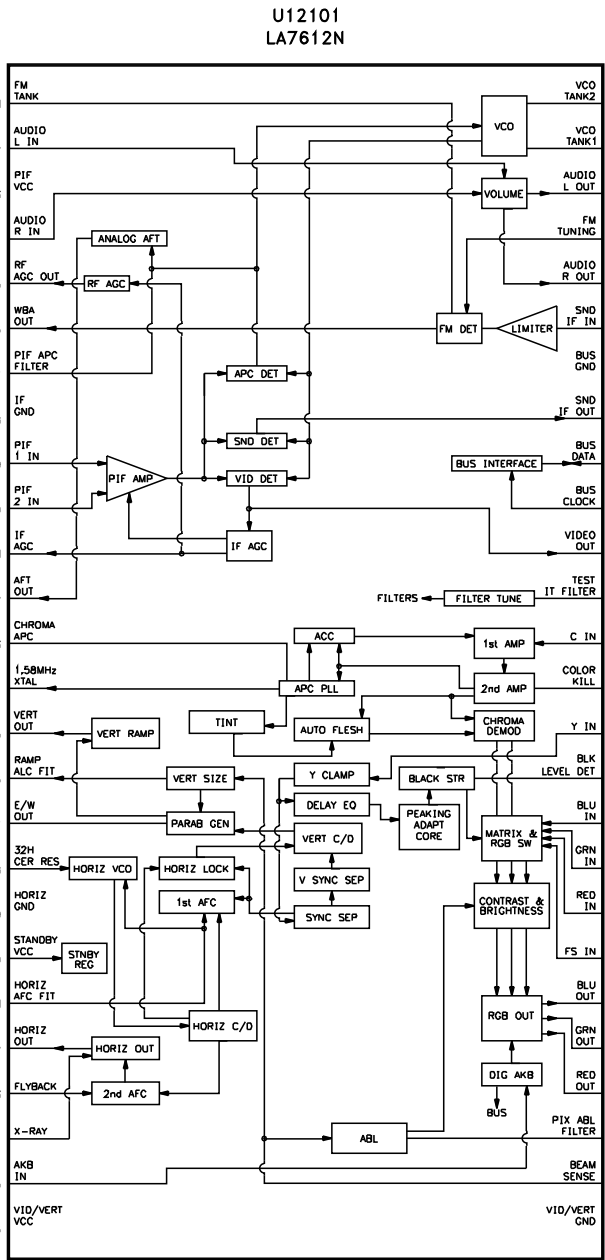
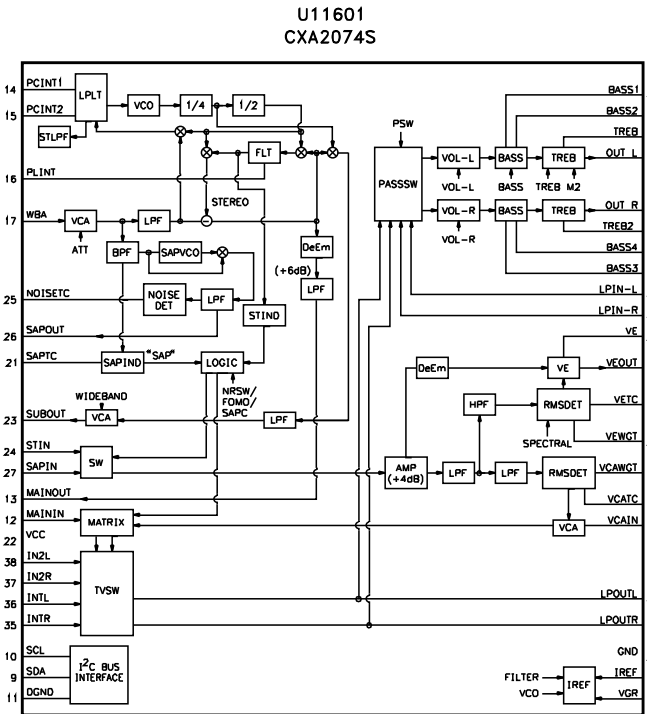
The following adjustment procedures are accessed thru a service menu. To access the service menu, turn the receiver on, press the menu button and hold it down while pressing the power button. While holding down the menu button, release the power button and press the volume + button. The screen will display a one line menu, on the left the parameter P0, and on the right the value of that parameter V0. Release buttons. Adjustments are made by selecting the proper parameter and changing the value of that parameter. To change the parameter number use channel up and down buttons. To adjust the current value of that parameter use volume + and - buttons. To access and change any of the adjustments, the proper parameter pass number must be entered. This information is listed at the beginning of the alignment. When these parameters are modified, the T-Chip and the corresponding EEPROM are updated. All service adjustments are bus controlled, except focus and screen.

NOTE: In order to adjust the RF AGC, audio or video levels, tuner, PIP, or stereo circuits, the Chipper Check hardware and software must be used. This can be purchased from Thomson Electronics. Before making any changes to any of the values, record the On Set values.

SERVICE ADJUSTMENT PARAMETERS

Parameter No.	Parameter Name	On Set Value	Value Range	Comment
0	Pass number for service adjustment parameters.	Must set to 76	-	May not advance until value is set to 76.
1	Error Code 1	0	0 - 255	Displays the first error detected. Set to 0 before exiting. See Error Codes Chart.
2	Error Code 2	0	0 - 255	Displays the second error detected. Set to 0 before exiting. See Error Codes Chart.
3	Error Code 3	0	0 - 255	Displays the last error detected. Set to 0 before exiting. See Error Codes Chart.
4	Horizontal Phase	7	0 - 15	Tune in a crosshatch pattern, adjust to center the pattern on the screen.
5	EW DC (Width)	21	0 - 31	Tune in a crosshatch pattern, adjust for slight horizontal overscan.
6	EW Amplitude	12	0 - 15	Set value to 12.
7	EW Tilt	6	0 - 15	Set value to 6.
8	Top Corner Pin Correction	5	0 - 7	Set value to 5.
9	Bottom Corner Pin Correction	5	0 - 7	Set value to 5.
10	Vertical DC	34	0 - 63	Tune in a crosshatch pattern, adjust to center vertically.
11	Vertical Size	83	0 - 127	Tune in a crosshatch pattern, adjust for slight vertical over scan.
12	Vertical Countdown Mode	0	0 - 3	Set value to 0. (0 = Standard, 1 = Non-Standard, 2 = 50Hz, 3 = 48Hz)
13	Red Bias	21	0 - 127	Press menu button on the TV set for setup line.
14	Green Bias	9	0 - 127	Press menu button on the TV set for setup line.
15	Blue Bias	5	0 - 127	Press menu button on the TV set for setup line.
16	Red Drive	40	0 - 63	-
17	Green Drive	37	0 - 63	-
18	Blue Drive	39	0 - 63	-
19	Gemstar Horizontal OSD Position	162	0 - 255	Set value to 162.
20	Gemstar Vertical OSD Position	68	0 - 255	Set value to 68.
21	Gemstar PIP Horizontal Position	40	0 - 255	Set value to 40.
22	Gemstar PIP Vertical Position	43	0 - 255	Set value to 43.
23	Gemstar PIP Window Vertical Size	3	0 - 13	Set value to 3.

IC FUNCTIONS



Important Parts Information

- ✓ The parts listed here are those not usually available from a well-stocked supply cabinet or bin.
- ✓ Where items may be replaced with equivalent parts, several alternates are shown from participating vendors.
- ✓ On the parts lists, safety items are marked with a # to remind you that only exact replacements are recommended for these items.
- ✓ When ordering parts, state the model number, part number, and description.

Obtaining Parts

Many of these parts are available from your local Sams authorized distributor or the manufacturer of the equipment. Call Sams for the name of your nearest distributor:

800-428-7267

Or consult the Sams *Annual Index* for the address of the original equipment manufacturer.

Participating Vendors

Information on test equipment and replacement parts is listed in these pages for the following participating vendors. Consult the Sams *Annual Index* for their current address.

✓ NTE Electronics, Inc. (NTE)

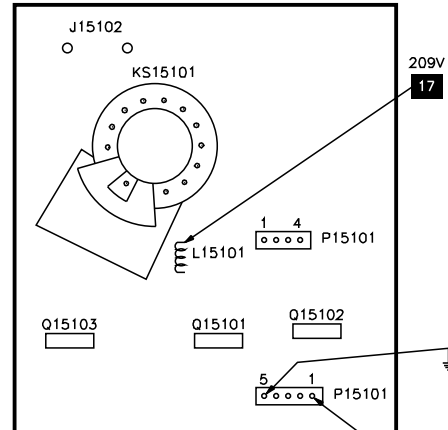
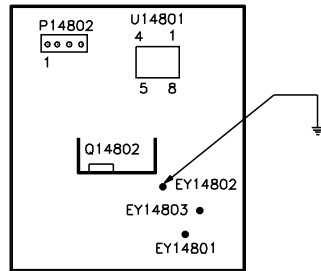
✓ Sencore, Inc.

TEST EQUIPMENT

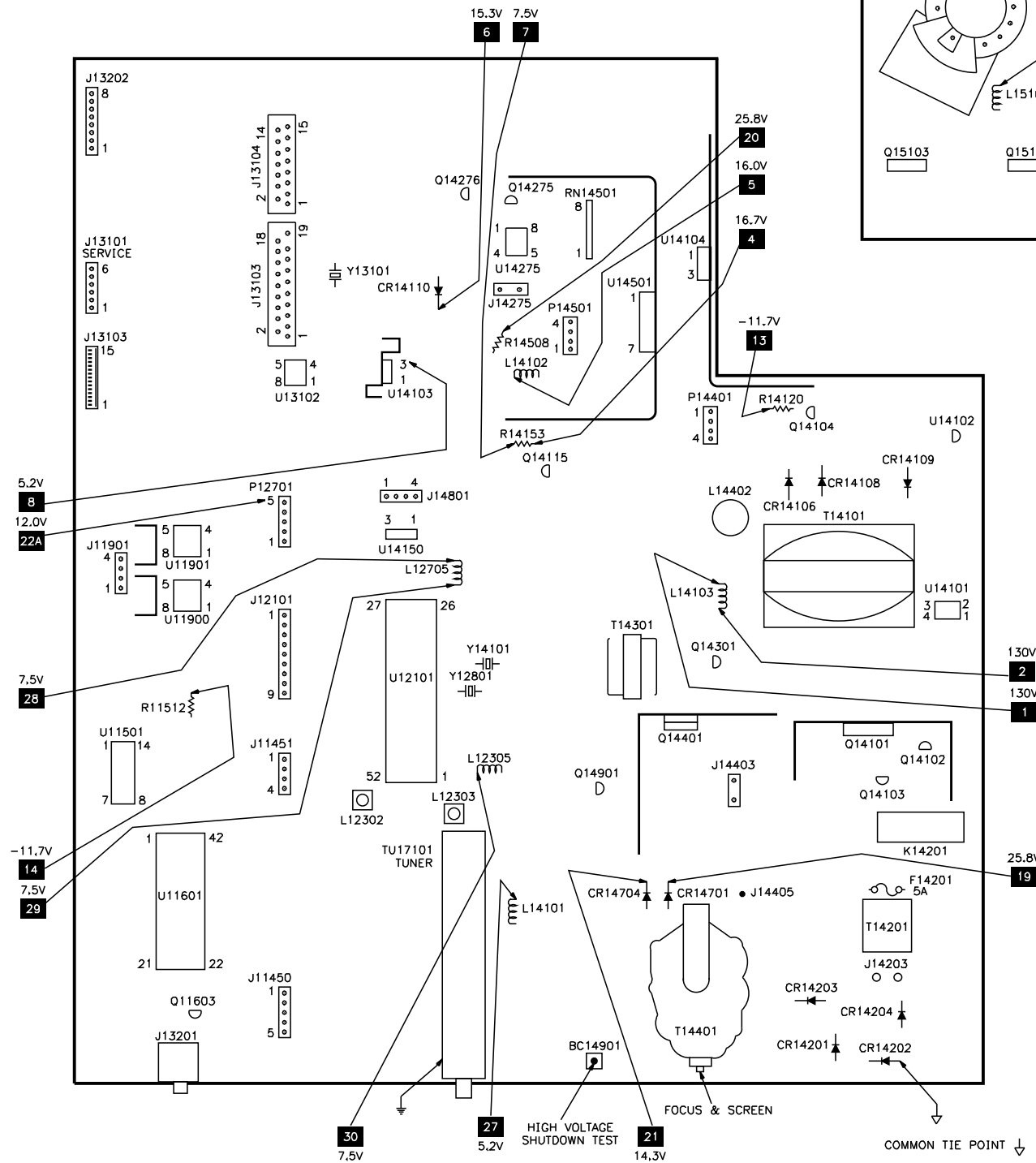
Test equipment listed by participating manufacturer illustrates typical or equivalent equipment used by Sams engineers to obtain measurements. This equipment is compatible with most types used by field service technicians.

Equipment	Sencore No.	Equipment	Sencore No.
Oscilloscope	SC3100	Isolation Transformer	PR570
Generators		Capacitance Analyzer	LC102
RGB	CM2125	CRT Analyzer	CR7000
Multiburst Signal	VG91	AC Leakage Tester	PR570
Color Bar	VG91	Inductance Analyzer	LC102
TV Stereo	VG91	Flyback Yoke Tester	TVA92
Digital VOM	SC3100	Field Strength Meter	SL753
Frequency Meter	SC3100	Transistor Tester	TF46
Hi-Voltage Probe	HP200	Horizontal Analyzer	HA-2500
Accessory Probes	TP212	Video Analyzer	VG91, TVA92

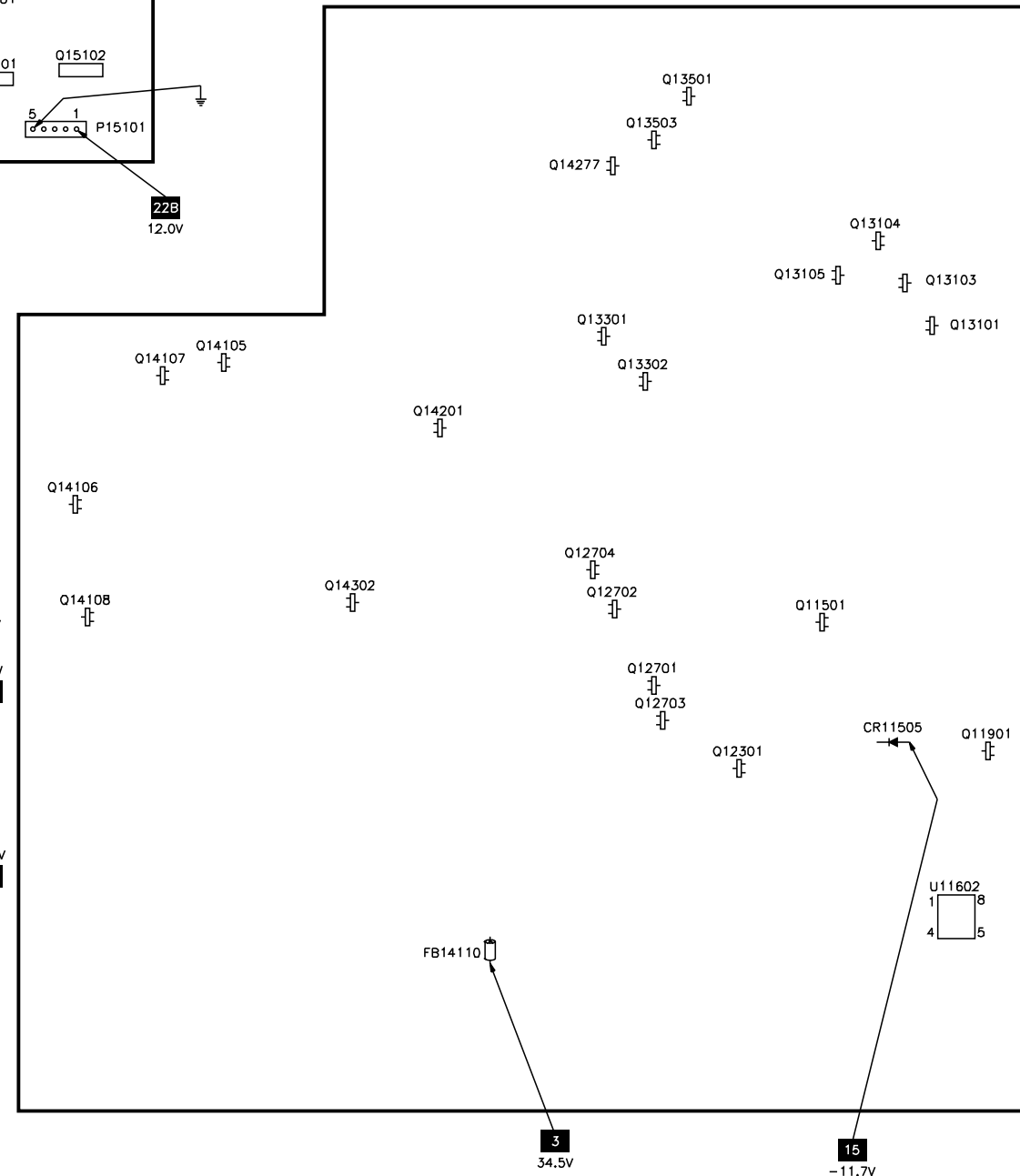
PLACEMENT CHART



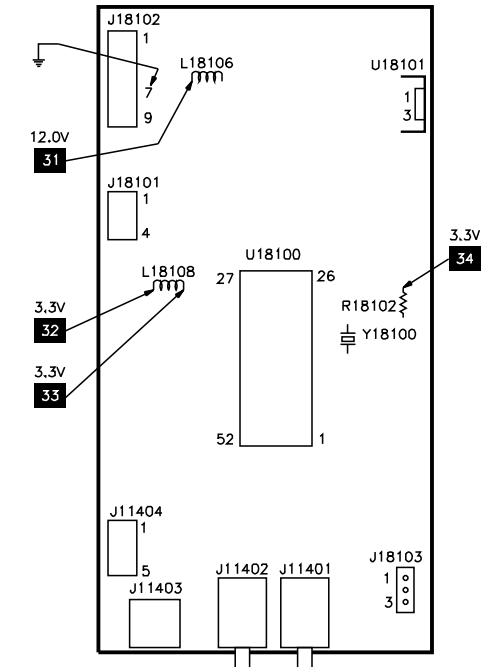
MAIN BOARD - TOP VIEW



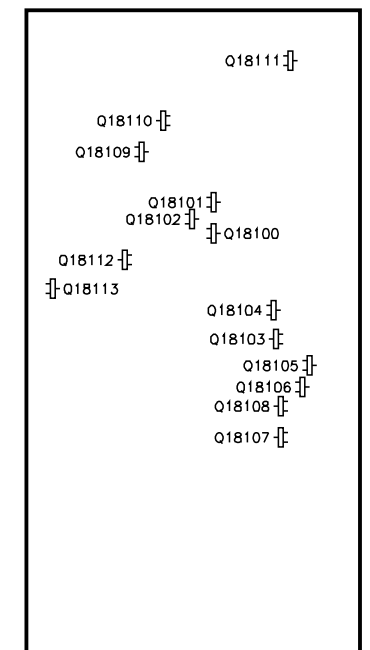
MAIN BOARD - BOTTOM VIEW



F2PIP BOARD - TOP VIEW



F2PIP BOARD - BOTTOM VIEW

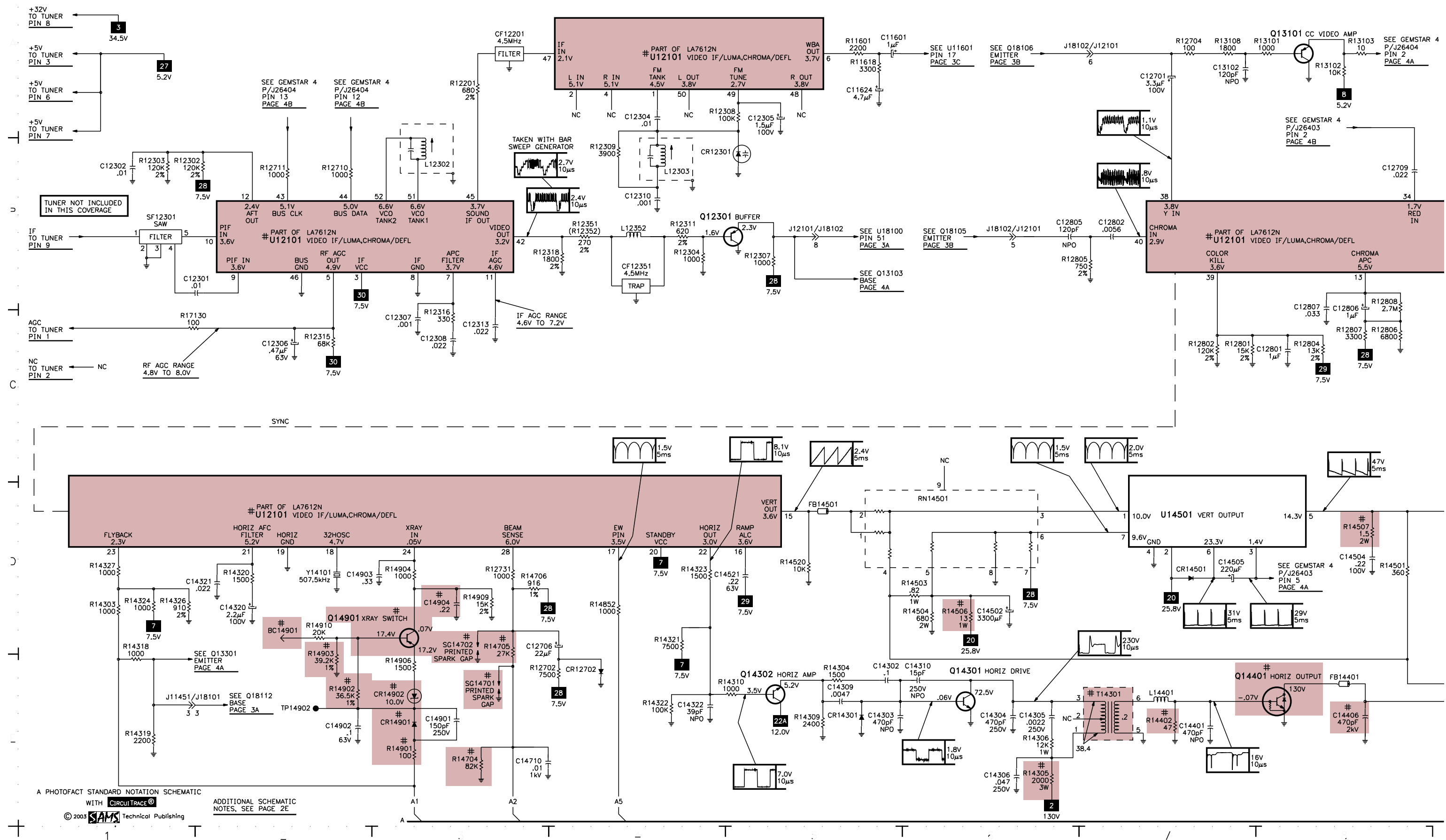


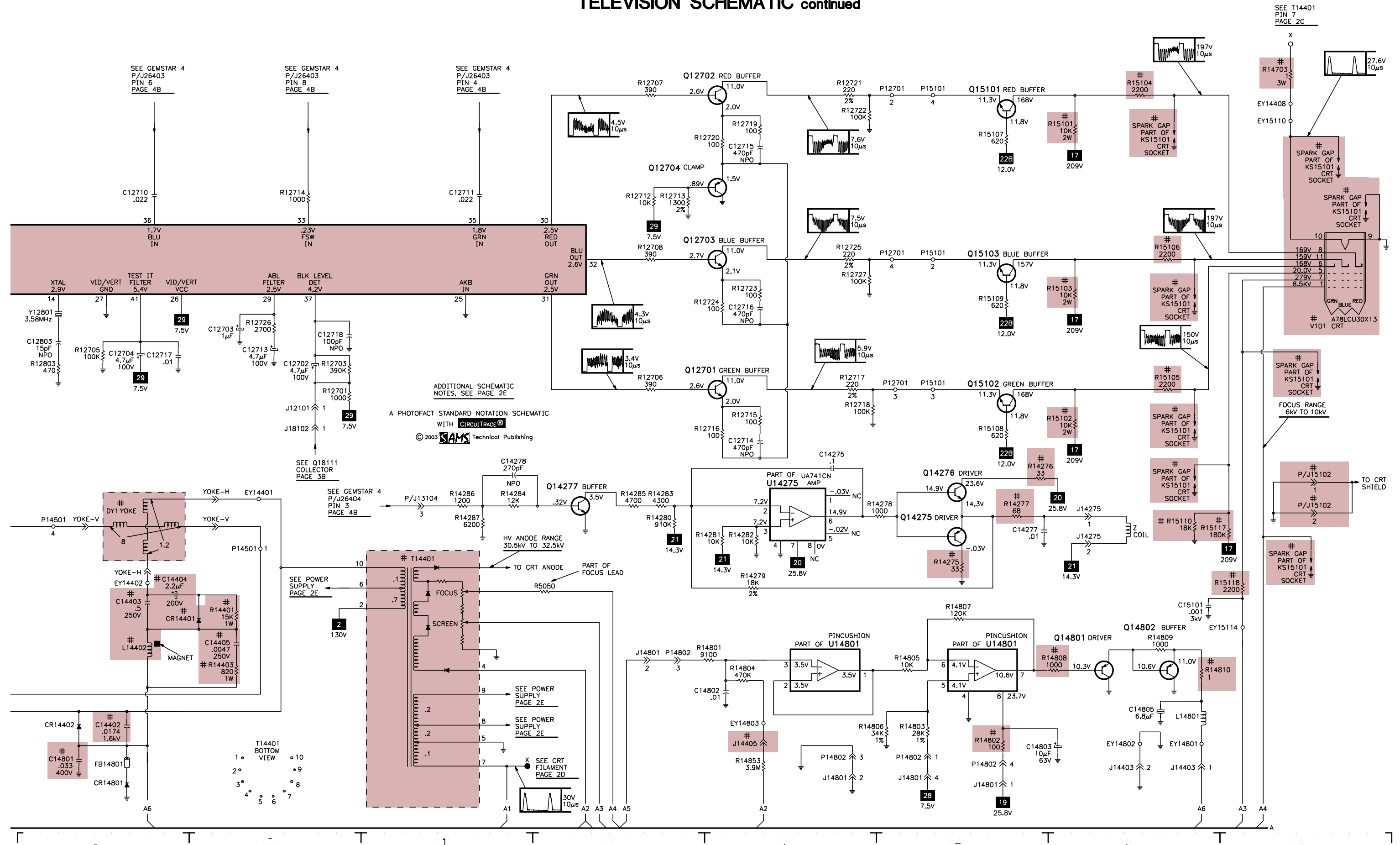
STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE®**

ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2E

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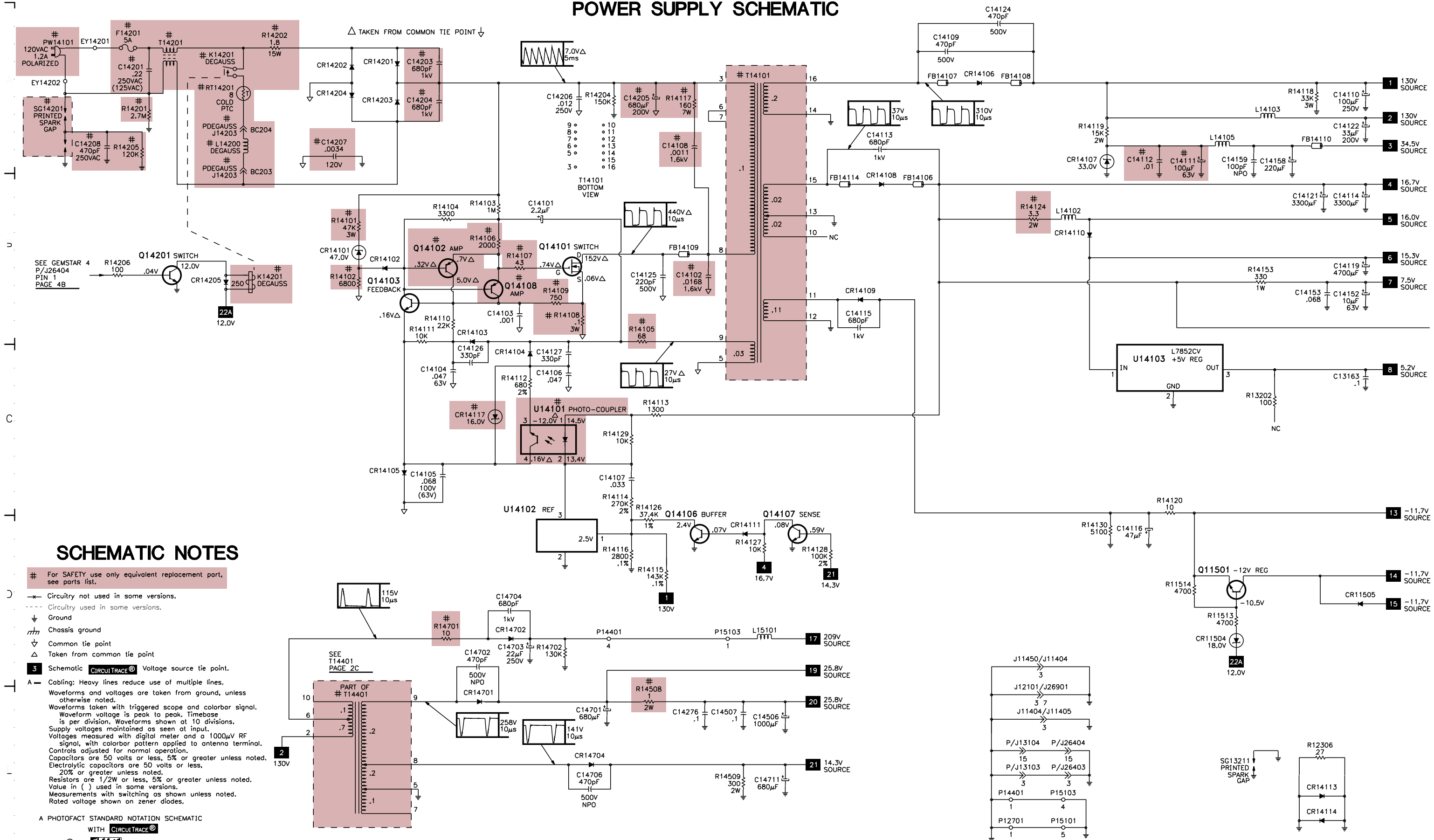


TELEVISION SCHEMATIC continued

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POWER SUPPLY SCHEMATIC

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ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2E

A PHOTOFACT STANDARD NOTATION SCHEMATIC

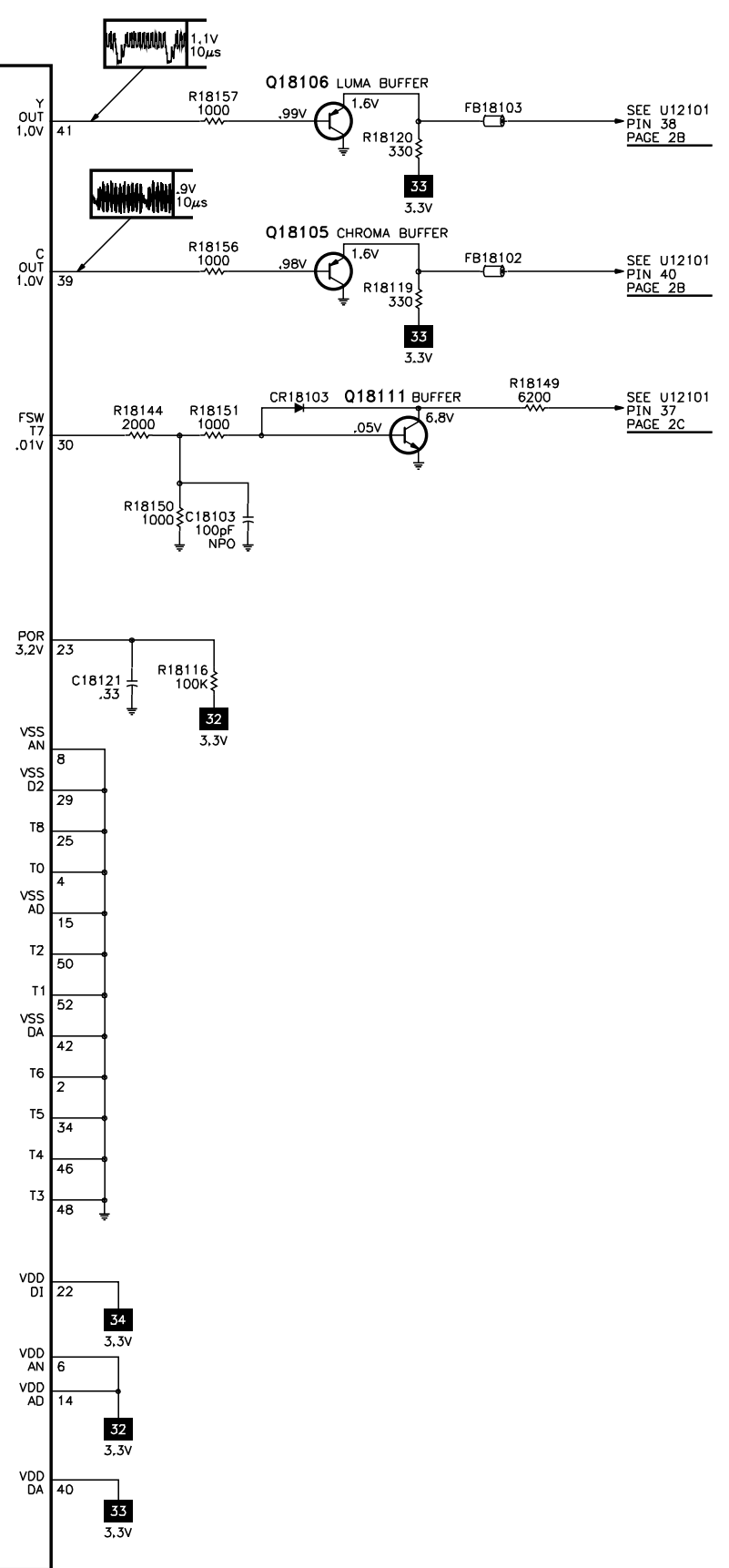
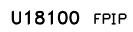
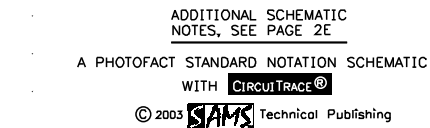
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SCHEMATIC COMPONENT LOCATION GUIDE

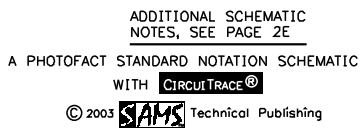
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MODEL 31GT750YX3 (CHASSIS CTC203CA2,



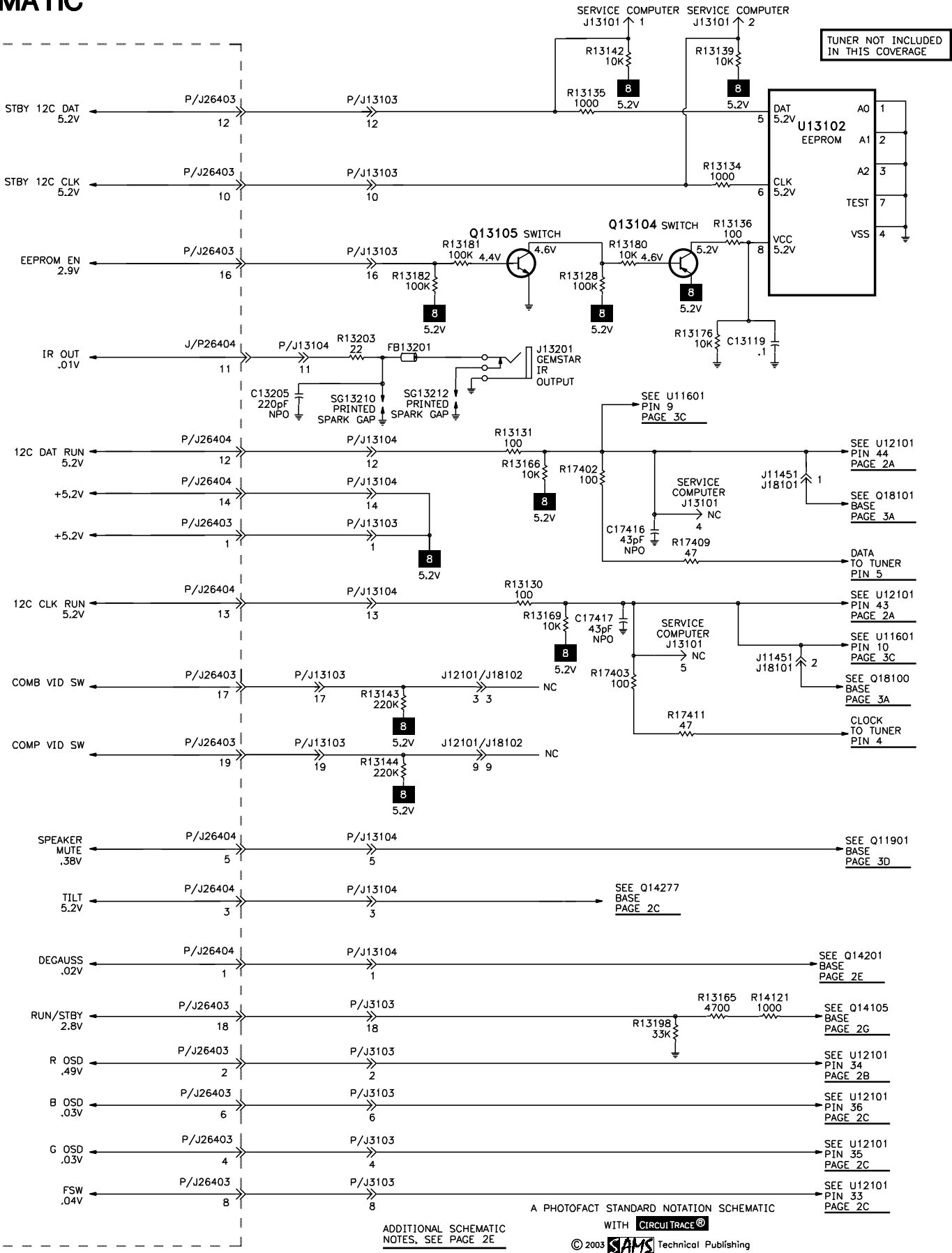
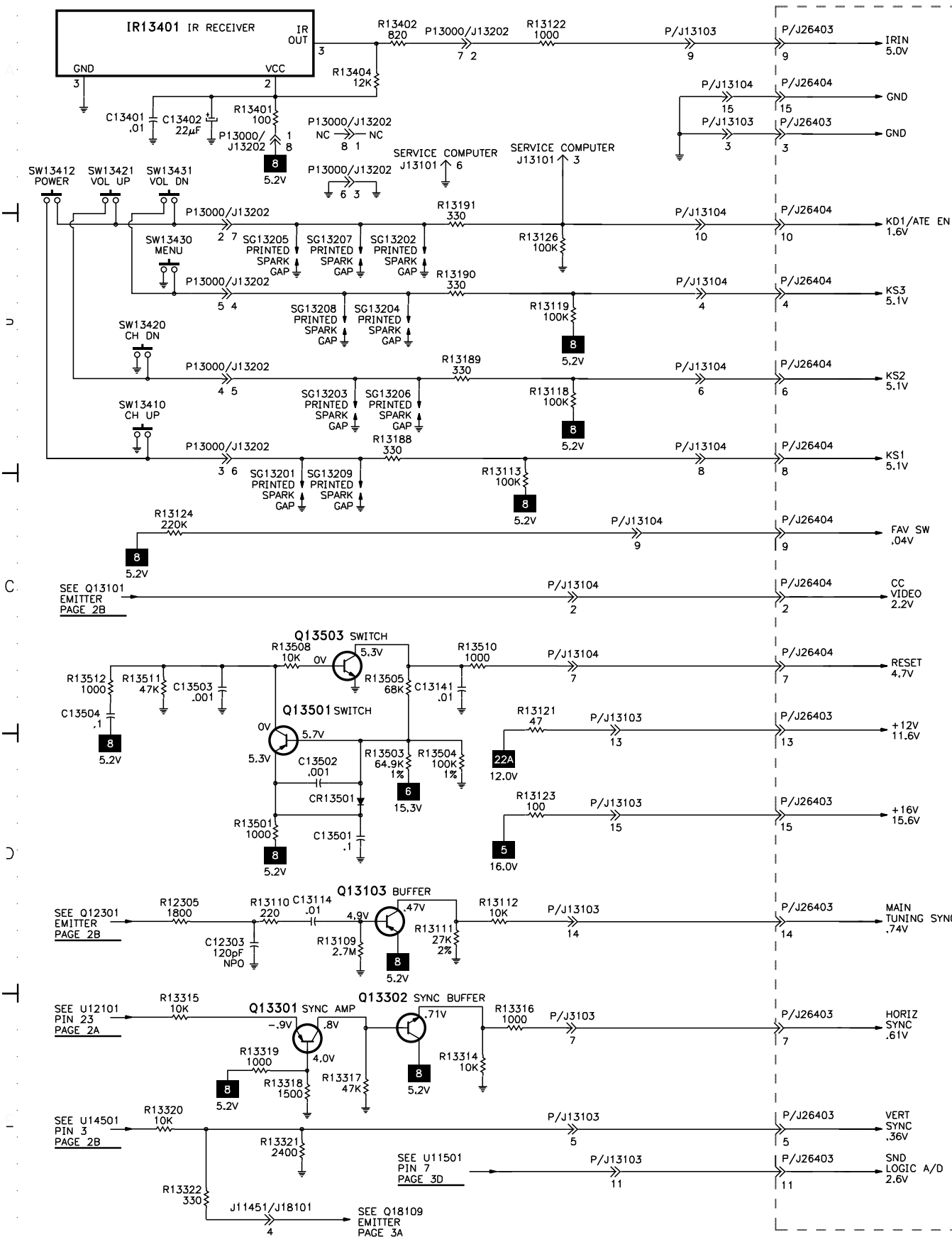
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GE MODEL 31GT750YX3 (CHASSIS CTC203CA2)



GEMSTAR 4 SCHEMATIC

GEMSTAR 4
MODULE



ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2E

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PARTS LIST

GE

MODEL 31G7T50YX3 (CHASSIS CTC203CA2)

Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Function/Rating	Mfr. Part No.	Notes	Item No.	Function/Rating	Mfr. Part No.	Notes
CR11401	-	232710	-	C12803	15pF 5% 50V NPO	200538	-	R11616	61.9K 1% 1/10W	225705	-
CR11402	-	220638	NTE5014A	C12805	120pF 5% 50V NPO	194902	-	# R11627	10 5% 1/4W Nonflammable	241259	-
CR11403	-	232710	-	C13102	120pF 5% 50V NPO	174414	-	# R11909	16 5% 3W	244213	-
CR11501, 02	-	232709	-	C13205	220pF NPO	178188	-	R12201	680 2% 1/10W	195939	-
CR11503	-	215488	NTE136A	# C14102	.0168 1.6kV	237355	-	R12302, 03	120K 2% 1/10W	207834	-
CR11504	-	226463	-	# C14108	.0011 1.6kV	244208	-	R12311	620 2% 1/10W	205339	-
CR11505	-	232709	-	# C14111	100µF 20% 63V	237425	-	R12318	1800 2% 1/10W	197903	-
CR11601	-	232709	-	# C14112	.01 10% 50V	240934	-	R12351	270 2% 1/10W	197623	-
# CR11602	-	159429	NTE5019T1	C14113, 15	680pF 10% 1kV	190538	-	R12713	1300 2% 1/10W	205340	-
CR11603	-	232709	-	C14159, 60	100pF 5% 50V NPO	193340	-	R12717, 21, 25	220 2% 1/4W	175324	-
CR12301	-	227051	-	# C14201	.22 20% 250VAC	-	-	R12801	15K 2% 1/10W	205354	-
CR12702	-	198589	NTE519	-	.22 20% 125VAC	231451	-	R12802	120K 2% 1/10W	207834	-
CR13501	-	164874	NTE177	# C14203, 04	680pF 10% 1kV	190538	-	R12804	13K 2% 1/8W	178285	-
CR14101	-	232221	-	# C14205	680µF 20% 200V	190560	-	R12805	750 2% 1/10W	202914	-
CR14102	-	198589	NTE519	# C14207	.0034 20% 120V	223330	-	R13111	27K 2% 1/10W	205245	-
CR14103, 04	-	139706	NTE177	# C14208	470pF 10% 250VAC	250102	-	R13503	64.9K 1%	247691	-
CR14105	-	198589	NTE519	C14278	270pF 5% 50V NPO	197597	-	R13504	100K 1% 1/10W	215221	-
CR14106	-	243636	-	C14303	470pF 5% 50V NPO	214732	-	# R14101	47K 5% 3W	232213	-
CR14107	-	217306	-	C14310	15pF 250V NPO	223899	-	# R14102	6800 5% 1/2W	179248	-
CR14108	-	243636	-	C14322	39pF 5% 50V NPO	202905	-	# R14105	68 5% 1/4W	175039	-
CR14109	-	176296	NTE552	C14401	470pF 5% 50V NPO	195918	-	# R14106	2000 5% 1/4W	175321	-
CR14110	-	155276	NTE116	# C14402	.0174 1.6kV	247717	-	# R14107	43 5% 1/4W	244214	-
CR14111	-	198589	NTE519	# C14403	.5 5% 250V	200150	-	# R14108	.1 5% 3W	244215	-
CR14113, 14	-	232709	-	# C14404	2.2µF 20% 200V	247673	-	# R14109	750 5% 1/4W	179317	-
CR14115	-	215488	-	# C14405	.0047 10% 250V	142765	-	R14112	680 2% 1/10W	195039	-
# CR14117	-	244224	NTE136A	# C14406	470pF 5% 2kV	227068	-	R14114	270K 2% 1/10W	205375	-
CR14201 Thru	-	-	-	C14702	470pF 10% 500V NPO	227050	-	R14115	143K 1%	244216	-
CR14204	-	147015	NTE125	C14704	680pF 10% 1kV	190538	-	R14116	2800 .1% 1/4W	244217	-
CR14205	-	198589	NTE519	C14706	470pF 10% 500V NPO	227050	-	# R14117	160 5% 7W	227958	-
CR14301	-	176296	NTE552	C14710	.01 20% 1kV	137583	-	R14118	33K 5% 3W	243805	-
# CR14401	-	140971	NTE558	# C14801	.033 5% 400V	214747	-	# R14124	3.3 5% 2W Nonflammable	223680	-
CR14402	-	242907	-	C14805	6.8µF 20% 50V NP	238292	-	R14126	37.4K 1% 1/10W	215215	-
CR14501	-	155276	NTE116	# C14904	.22 +80% -20% 25V	217298	-	R14128	100K 2% 1/8W	176816	-
CR14701	-	241304	-	C15101	.001 10% 3kV	120696	-	# R14151	8.2 5% 1W	235378	-
CR14702	-	176296	NTE552	C17416, 17	43pF NPO	214029	-	# R14201	2.7M 10% 1/2W	217662	-
CR14704	-	207878	NTE519	C18102	180pF 5% 50V NPO	211039	-	# R14202	1.8 10% 15W	200444	-
CR14801	-	243636	-	C18103	100pF 5% 50V NPO	193340	-	# R14205	120K 20% 1/2W	238903	-
# CR14901	-	157301	NTE177	C18104	220pF NPO	205551	-	# R14275, 76	33 5% 1/4W	175754	-
# CR14902	-	159429	NTE5019T1	C18107	180pF 5% 50V NPO	211039	-	# R14277	68 5% 1/4W	175039	-
CR18101, 02, 03	-	232709	-	C18112	10pF NPO	200537	-	R14279	18K 2% 1/10W	205356	-
Q11501	-	215495	-	C18113	470pF NPO	214732	-	# R14305	2000 5% 3W	251832	-
Q11603	-	177788	NTE31	C18114	20pF 5% 50V NPO	220150	-	R14326	910 2% 1/10W	197627	-
Q11901	-	215495	-	C18122	47pF 5% 50V NPO	210689	-	# R14401	15K 5% 1W	190557	-
Q12301	-	215496	-	C18124	100pF 5% 50V NPO	174412	-	# R14402	47 5% 1/2W	241321	-
Q12701, 02, 03	-	215495	-	C18127	18pF 5% 50V NPO	214028	-	# R14403	820 5% 1W	175349	-
Q12704	-	215496	-	C18129	100pF 5% 50V NPO	193340	-	# R14506	13 5% 1W	231508	-
Q13101, 03, 04	-	215496	-	C18134	82pF NPO	214741	-	# R14507	1.5 5% 2W	237441	-
Q13105	-	215495	-	C18137	220pF NPO	214032	-	# R14508	1 10% 2W	215577	-
Q13301	-	215496	-	C18138	330pF NPO	205551	-	# R14701	10 20% 1/2W	241261	-
Q13302	-	215495	-	C18139	27pF 5% 50V NPO	197604	-	# R14703	1 5% 3W	242608	-
Q13501	-	215496	-	C18142	91pF 5% 50V NPO	192057	-	# R14704	82K 10% 1/2W	239116	-
Q13503	-	215495	-	C18143	27pF 5% 50V NPO	197604	-	# R14705	27K 10% 1/2W	238958	-
Q14101	-	244223	-	C18162, 63	100pF 5% 50V NPO	193340	-	R14706	916 1%	244246	-
# Q14102	-	147665	NTE159	CF12201	Filter	195702	4.5MHz	# R14802	100 5% 1/4W	198667	-
Q14103	-	232218	-	CF12351	Trap	181125	4.5MHz	R14803	28K 1%	195731	-
Q14104	-	243955	-	# DY1 (1)	Yoke	-	Horiz .95mH, Vert 17.5mH	R14806	34K 1% 1/4W	207881	-
Q14105, 06, 07	-	215495	-	# F14201	Fuse	175425	5Amp, 125V, Fast Acting	# R14808	1000 5% 1/4W Nonflammable	237444	-
# Q14108	-	215496	-	FB13201	Ferrite Bead	226467	-	# R14810	1	233165	-
Q14115	-	177788	NTE31	FB14106, 07, 08	Ferrite Bead	237504	-	# R14901	100 5% 1/4W Nonflammable	198667	-
Q14201	-	219412	-	FB14109, 10	Ferrite Bead	226467	-	# R14902	36.5K 1% 1/4W	207882	-
Q14275	-	219025	NTE159	FB14114	Ferrite Bead	237504	-	# R14903	39.2K 1% 1/4W	190469	-
Q14276	-	229220	-	FB14401	Ferrite Bead	161237	-	R14909	15K 2% 1/10W	205354	-
Q14277	-	215495	-	FB14501	Ferrite Bead	215547	-	# R15101, 02, 03	10K 5% 2W Nonflammable	176656	-
Q14301	-	146851	NTE287	FB14801	Ferrite Bead	232765	-	# R15104, 05, 06	2200 5% 1/2W	247669	-
Q14302	-	215495	-	FB18101	Ferrite Bead	239201	-	# R15110	18K	248974	-
# Q14401	-	237470	-	FB18102, 03	Ferrite Bead	240150	-	# R15117	180K	248976	-
Q14801	-	219025	NTE159	IR13401	Receiver	245541	IR	# R15118	2200 5% 1/2W	247669	-
Q14802	-	223656	-	J11401	Jack	239389	Assembly	# R18125	30 5% 3W	247611	-
# Q14901	-	147665	NTE159	J11402	Jack	245283	Assembly	R18158	243 1% 1/10W	214132	-
Q15101, 02, 03	-	215497	NTE2501	J11403	Jack	195705	S Video	R18159	392 1%	234552	-
Q18100, 01	-	215495	-	J13201	Socket	214609	Gemstar IR Blaster Output	RN14501	Resistor Network	215499	-
Q18102	-	219412	-	# K14201	Relay	190490	Degaussing	# RT14201	8 Cold PTC	207768	-
Q18103, 04	-	215495	-	# KS15101	Socket	233120	CRT	SF12301	Filter	217318	SAW
Q18105, 06	-	215496	-	L12302	VCO	215502	-	# SP1, 2	Speaker	243873	60mm X 125mm, 8 Ohms
Q18107, 08	-	215495	-	L12303	FM	233056	-	SW13410	Switch	245531	Channel Up
Q18109	-	215496	-	L12305	10µH	175409	-	SW13412	Switch	245531	Power
Q18110, 11, 12	-	215495	-	L12352	18µH	195711	-	SW13420	Switch	245531	Channel Down
Q18113	-	215496	-	L12705	10µH	175409	-	SW13421	Switch	245531	Volume Up
U11501	MC3403N	241785	NTE987	L14101	100µH	160186	-	SW13430	Switch	245531	Menu
U11601	CXA2074S	237930	-	L14102	27µH	190017	-	SW13431	Switch	245531	Volume Down
U11602	-	237474	-	L14103	22µH	215504	-	# T14101	SMT	244228	-
U11900, 01	TDA7267	244225	-	L14105	47µH	244222	-	# T14201	Line Filter	190507	-
# U12101	LA7612N	241266	-	# L14200	Degaussing	237932	-	# T14301	Horizontal Drive	215541	-
U13102	LA7612A	252842	-	L14401	4µH	215505	-	# T14401 (2)	Horizontal Output	247718	-
# U14101	-	251271	-	# L14402	Horizontal Linearity	210895	-	# TU17101	Tuner	249035	CTTS050T
U14102	-	223653	-	L14801	390µH	237452	-	# V101	CRT	A78LCU3013	A78LCU30X13
U14103	L7852CV	231525	-	L15101	100µH	160186	-	Y12801	Crystal	161235	3.58MHz
U14104	KA7812	241752	-	L18100	15µH	197613	-	Y14101	Resonator	227064	507.5kHz
U14150	L78S75CV	162394	NTE966	L18101	18µH	195711	-	Y18100	Crystal	197652	14.318MHz
U14275	UA741CN	231526	-	L18102	8.2µH	149170	-	Z	Coil	237832	-
U14275	-	237477	NTE941M	L18103	12µH	210687	-	-	Fuse Holder	176642	For F14201 (2 Used)
U14501	-	232109	NTE1788	L18104	10µH	160518	-	-	PC Board	244469	CRT
U14801	-	223682	NTE928M	L18105	-	197615	-	-	PC Board	247480	F2PIP
U18100	-	248620	-	L18106	-	190017	-	-	PC Board	237420	FPA
U18101	-	214704	NTE956	L18108	4.7µH	237451	-	-	PC Board	249017	Gemstar 4 Module
				L18111	-	244254	-	-	PC Board	244248	Pincushion
				# PW14201	Line Cord	241251	AC, Polarized	-	PC Board	251838	4.5MHz Trap
C11612, 13	22pF 5% 50V NPO	194903	-	# R11401, 03	2200 5% 1/2W	246613	-	-	Transmitter	247620	Remote, CRK76TM1
C12303	120pF 5% 50V NPO	194902	-	# R11406	56 5% 1/2W	247610	-	-			
C12714, 15, 16	470pF 5% 50V NPO	214732	-	# R11407, 09	2200 20% 1/4W	237429	-	-			
C12718	100pF 5% 50V NPO	193340	-	# R11412, 14	56 5% 1/2W	247610	-	-			
				# R11511, 12	100 5% 1/4W Nonflammable	198667	-	-			